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25X1A

6/10/05

June 20, 1969

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To:

25X1A From:

Subject: Trip Report No. 3, June 10-11, 1969,

25X1A Under Contract No.

25X1A Reference: 2200901-TR-3

25X1A visited the customer's installation

25X1A on 10-11 June and was joined on 11 June by June 10 was spent in continuing review of present procedures with emphasis on the timing of data generation. Also on

25X1A June 11, joined the discussion to present a description of stellar data reduction and the problems associated therewith.

The possibility of further definition of tonal scales in a more quantitative way was discussed, particularly from the standpoint of separating system from atmospheric problems. Correlation of results with attitude data has not been particularly successful. It was also noted that defocus causes equivocation in smear slit data. Vibration is also a current problem in certain cameras.

The absence of stellar coverage on target frames is a serious limitation to detailed analysis of performance. It is possible such coverage could be attained if requested and conditions were right. Little control is available for checking data, but

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for the customer's application this is not a serious limitation. Smear is not now a problem on stellar. Recognition is done by overlays (templates) based on star charts. 6th magnitude is about the limit. Data is produced in about a month for a single mission.

25X1A Also on 10 June, [redacted] to discuss modeling. Their models are primarily photogrammetric in nature with little orientation toward the quality type of model. Again, intent is target oriented, not geodetic. Stereo increases accuracy of data even where the stereo itself is not used.

25X1A It was concluded that the [redacted] study of mensuration should be examined in detail, if possible, due to the importance of measurement as an end product. The problem generally is much different from mapping since angular subtense of targets is small. On the other hand, this produces an interaction with image quality which is of minor importance in mapping.

A start was made on outlining the sequence of events that involve film handling and analysis. It is planned that the next visit will be devoted primarily to a document review and to

25X1A further definition of event sequences. [redacted] mentioned that a questionnaire for photointerpreters has been tentatively planned. This form would allow a one-shot formulation of P.I. impressions of the product delivered. In view of the highly subjective nature of the quality of a product, it is highly desirable that some means be found for extracting quality data from P.I. evaluation.

On 11 June, a briefing was conducted by IEG. This briefing was presented by eight members of the IEG management and staff. The briefing was thorough, well-conducted, and presented much data of interest to this program. In particular, it underlined the trade-off between the various aspects of what one refers to as "quality". For example, continuity of coverage is very important.



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In many cases, one picture with high ground resolution can answer many questions not otherwise answerable. At the same time, more gross but continuous coverage of targets can result in knowledge of change which in turn can be reflected in a need for more detail. A good example of the ability to extract information from the ON by special printing was presented. One could assume that direct production of DN will help in this regard since a generation will be saved in producing a special DP. The trend has been steadily toward more comprehensive requirements for data as system resolution has improved. A considerable volume of data was presented in regard to the level of information extractable at different resolution levels. A scale of 10,000 was mentioned as being derived from [redacted] data as a level at which the vast majority of requirements could be met. It was interesting that much of the data generated by electronic specialists is not as dependent on resolution as one might think. Since the objects themselves (booms, wires, antenna elements) are often not resolvable under the best circumstances, deductions are often made from the surround, clearings, cable paths, etc. 25X1A

It was clear from this discussion also that the effects of snow and ice vary with the purpose of the photointerpretation. The same is true of obliquity, sun angle and almost any other aspect of the problem. In short, the ultimate measure of quality, in the exploitation point of view, is the information which can be extracted. Any phenomenon which aids in this extraction is therefore a positive factor.

25X1A A discussion was held with [redacted] on the 11th of June in regard to the handbook concept. It is the customer's 25X1A desire, and [redacted] concurs completely, that the handbook reflect all recommended types of evaluation procedure without regard to location of accomplishment and implementation thereof.

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The above description of the IEG briefing is not intended to be complete. Data presented there will be considered in further detail as time progresses. The briefing was a valuable description of the collection product from the viewpoint of the photointerpreter.

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